## **Further Beyond Expectations**





Best-in-class 4" Thermal Industrial Printer



satoeurope.com

# CL4NX Plus

## **Designed for Track & Trace Operations Globally**

The rise of IoT is driving digital transformation across industries. Increasingly, businesses use data to gain traceability, enhance productivity and improve customer satisfaction. With our extensive experience in providing solutions to serve customers' on-site needs, we are proud to introduce CL4NX Plus, the industry's leading 4-inch industrial thermal printer designed to meet the requirements of mid-range to high-end label printing environments.

#### **KEY APPLICATIONS:**

#### Manufacturing

Blue 123456

Category: Top/T-shirt

\$79.90

RFIDI

Size:

Color: Code:

BEID price tag

Raw material to product labelling for greater traceability

Built for tough industrial use, CL4NX Plus helps manufacturers gain clear visibility and traceability from raw materials to finished products which is especially helpful in the event of product defect.

Electronic manufacturers can leverage SATO's heat resistant labels and CL4NX Plus for high precision printing of micro PCB labels for their electronic products that are getting ever smaller.



### Retail

## Backyard to in-store labelling for higher sales and customer satisfaction

Ideal for high-volume distribution label printing, CL4NX Plus helps prevent incorrect deliveries of goods from warehouses to stores.

Retailers can also achieve more efficient stocktaking & visibility of store inventory by re-labelling products from factories with RFID. A wide range of labels, tags, tickets for various needs from markdown to anti-tampering are available.





#### Automotive

018-3333-4444 018-5555-6666

d-based IoT service

3-layer shipping/ return label

## Effective identification tagging for productivity boost

CL4NX Plus is ideal for automobiles and parts makers to boost efficiency and productivity.

With AEP and PDF Direct Printing, printer processes data in PDF format from PC to print, cut and sort ID tags automatically without worker intervention at high accuracy. User can also print directly from PLC to printer and easily implement same printing application at any manufacturing plants.

AND NOT THE OWNER.

NATO



#### **Transport & Logistics**

Supply chain labelling for enhanced agility and visibility

Suitable for labelling across the supply chain, from goods receiving, inventory management to shipping, user can save various label templates in CL4NX Plus for easy selection and setup.

Choose from our wide label selection including special types such as 3-layer labels suitable for shipping and return of goods.

## We meet all your printing needs with one complete solution

#### Speed & Precision High Print Speed & Precision

Offers high print precision ideal for micro label applications and 16% faster print speed than other industrial printers even at high resolution.

#### Continuous Usage 30% More Media

More media per roll and longer ribbon mean lesser downtime for media replenishment.

#### Minimal Downtime



View status of all printers at a glance and perform proactive preventative maintenance before error occurs. PureLine<sup>™</sup> platen roller provides visual indication of the degree of wear to enable preventative maintenance.







White line starts to fade when platen roller starts to wear out.

#### **Durable & Functional Design**

Metal casing with bi-fold cover makes printer suitable for use in industrial environments with limited space.





Die-cast aluminium construction for greater stability and durability.



Stainless steel is used for the paper transport route. Printing position does not shift due to resin shaving.



Highly durable thermal head enables long-term high-quality printing.



#### 14 ips at 305 dpi





#### Usability Intuitive Operation

Enable prompt response by easily detecting operation errors with red / blue LED indicator lights. Speed up maintenance and error resolution with video guidance on full colour LCD screen.

#### Easy Setup & Maintenance

Field installable parts, snap-in print head and tool-less platen replacement simplifies setup and maintenance.





We speak your language & integrate seamlessly into your business.

#### Flexibility & Connectivity **Pre-installed Emulation Languages**

Auto detection of major emulation languages enable seamless switching from SATO legacy models or other brands to CL4NX Plus.

SBPL/SZPL/SDPL/SIPL/STCL/SEPL

#### **Multilingual Support**

Supports 47 print and 31 display languages making this model suitable for global use.

to Peripheral Devices

## a สวัสดี *C*んにちに **Direct Connectivity**



Xin Chào Halo

AEP enables user to directly connect printer to keyboards, weight scales, barcode scanners and more for simplified printing without needing a PC.

#### Multiple Interfaces

Connect via multiple interfaces including bluetooth, serial, parallel, LAN and USB. WLAN optional kit also available.





### Expand the scope of your label printing applications



Enabled Printing

#### Video



Application Enabled Printing is a powerful printing intelligence that enables customisation of printer operations to achieve wider scope of printing applications, simplify labelling processes and reduce business costs.

#### **Custom Applications**

With AEP, we can create custom standalone applications to cater to your on-site operational needs. Application can be run directly on the printer, independent of host software.

CL4NX Plus prints labels and displays instructions on LCD screen for operators to sort (left or right) the printed labels for further processing.

#### **PC-less Printing**

Connect CL4NX Plus directly to barcode scanners, indicator lights, weight scales, keyboards, etc. for a wider variety of printing applications, without the needing a PC.

Input data directly using barcode scanner and numeric keypads to simplify label printing.

#### **Direct Printing from PLC**

With AEP, user can easily integrate CL4NX Plus with other devices such as Programmable Logic Controller (PLC) to streamline label printing by eliminating the need for device customisation or special printer firmware.





## IoT solution to keep your operations running & visible

#### Video

SOS

SATO Online Services



By monitoring your printers 24/7 via cloud, SATO Online Services enables proactive preventative maintenance and helps you reduce printer downtime by as much as 86%.

\*based on survey conducted by SATO in Japan



Customer

**Proactive Preventative Maintenance** 

#### SOS Smart App



Monitor printers centrally (view operation status, print mileage, expected replacement required for expendable parts, etc.) at a glance and perform preventative maintenance before issues occurs, SOS sends a notification. SOS send notification via email according to the situation of your printer, solving errors immediately.

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#### Manage Printers at Multiple Locations

Manage printer fleet such as view and change print speed, print darkness, print position and network settings efficiently from anywhere at anytime.

#### **CL4NX Plus Technical Specifications**

Printing Method			Direct Thermal / Thermal Transfer					
Print Mode			Continuous, Tear-off, Cutter, Dispenser, Linerless					
Print Resolution			8 dots/mm (203 dpi)	24 dots/mm (609 dpi)				
Max. Print Speed			14 ips (355 mm/sec)	14 ips (355 mm/sec)	6 ips (152 mm/sec)			
	Width, mm (inch)		104mm (4.09")					
Max. Print Area	Length, mm (inch)		2500mm (98.42")	1500mm (59.05")	400mm (15.75")			
Processor			Dual CPU & Dual OS: CPU1: 800MHz for Linux OS, CPU2: 800MHz for ITRON OS					
Printer Memory			CPU1: 2GB ROM, 256MB RAM, CPU2:	4MB ROM, 64MB RAM				
CONSUMABLE SPECIFI	CATION (Recomm	ended to us	se consumables manufactured or s	upplied by SATO)				
Sensor Type			I-mark Sensor (Reflective), Label Ga	p Sensor (Transmissive)				
Media Type			Roll or fan-fold die cut labels, Plain	paper face stock, Synthetics and Continuous	stock			
Media Thickness			0.060 - 0.268mm (0.0024" - 0.011")					
Diameter			Maximum 265mm (10.43"), Core diameter: Ø76mm (3.0"), Ø101mm (4.0")					
Label Shape	Wind Direction		Face In / Face Out. No Setting Change Required					
	<b>C</b>	Width	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")			
	Continuous	Length	6 - 2497mm (0.24" - 98.30")	6 - 1497mm (0.24" - 58.94")	6 - 397mm (0.24" - 15.63")			
	Tear-off/	Width	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")			
Label Size	Cutter	Length	17 - 2497mm (0.67" - 98.30")	17 - 1497mm (0.67" - 58.94")	17 - 397mm (0.67" - 15.63")			
(Without Liner)	Disposer	Width	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")			
	Dispenser	Length	10 - 397mm (0.39" - 15.63")*1	10 - 397mm (0.39" - 15.63")*1	10 - 397mm (0.39" - 15.63")*1			
	Linerless	Width	60 - 118mm (2.36" - 4.65")	60 - 118mm (2.36" - 4.65")	60 - 118mm (2.36" - 4.65")			
	LITCHESS	Length	30 - 120mm (1.18" - 4.72")	30 - 120mm (1.18" - 4.72")	30 - 120mm (1.18" - 4.72")			
Ribbon	Size		Max. Length: 600m (1968.5'). 450m (1476.4') when ribbon width is 39.5mm (1.55") Max. Roll Diameter: 90mm (3.5"), Ribbon width: 39.5mm (1.55") to 128mm (5.04")					
	Other		Core diameter: Ø25.4mm (1"), Win	d direction : Face In/ Face Out, No Setting (	Change Required			
FONTS / SYMBOLOGIE	S							
	Standard Bitmap		U, S, M, WB, WL, XS, XU, XM, XB, XL, X20, X21, X22, X23, X24, OCR-A, OCR-B					
Internal Fonts	Scalable Fonts		30 SATO Fonts, 2 Outline Fonts					
	Encoding		Majour Latin and Pan-European Code Pages (WGL4), GB18030 (simplified), KSX1001 (Korean), BIG5 (traditional), JIS, SHIFT-JIS, UTF-8 and UTF-16BE also supported					
Barcode	Linear		UPC-A/UPC-E, JAN/EAN-13/8, CODE39, CODE93, CODE128, GS1-128(UCC/EAN128), CODABAR(NW-7), ITF, Industrial 2 of Matrix 2 of 5, MSI, POSTNET, UPC add-on code, BOOKLAND, USPS code, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked					
	2D Symbologies		QR Code, Micro QR Code, PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, Data Matrix (ECC200), Aztec Code, GS1QR Code and Composite Symbologies					
Print Direction			Character data rotation: 0°, 90°, 180°, 270°					
User Downloadable Fonts, G	raphics or Formats		Maximum 100MB					
INTERFACE CHARACTE	RISTICS AND INT	EGRATION						
Standard Interfaces			USB 2.0 (Type A & B), Ethernet (IPv4/v	6). RS232C. IEEE1284. EXT. Bluetooth Ver. 3	.0'2. NFC			
Optional Interface			USB 2.0 (Type A & B), Ethernet (IPv4/v6), RS232C, IEEE1284, EXT, Bluetooth Ver. 3.0° <sup>2</sup> , NFC Wireless LAN, WiFi Certified, WiFi Direct, IEEE 802.11 a/b/g/n Dual Band (2.4GHz, 5GHz)					
Remote Access			SNMP Ver.3, HTTPs					
Supported printer protocols			Standard: SBPL (SATO Barcode Printer Language) Emulation Language: Auto detect - SZPL, SDPL, SIPL, STCL, SEPL					
OPERATING CHARACT								
Power Requirements			AC100V ~ AC240V+10% 50/60 Hz A	uto-ranging Power Supply				
. ener nequiements	Operating		AC100V ~ AC240V±10%, 50/60 Hz, Auto-ranging Power Supply 0 - 40°C / 30 - 80% RH (without condensation)					
Environment	Operating Linerless		5 - 35°C / 30 - 75% RH (without condensation)					
	Storage							
Dimensions			271mm (10.67") × 457mm (18.00") × 321mm (12.64")					
Weight			15.1kg (33.28 lbs)					
Display Panel			TFT Full Color LCD, 3.5"(320 x 240 RGB)					
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Standards & Agency Approvals Functions – Useful features			Please contact your nearest SATO sales representative regarding agency approvals for your region Micro Label Printing, SATO Application Enabled Printing, SATO Online Services, 18 User Guidance Videos on LCD, Space for Customized Videos, Multi Language Support LCD Message (31 Languages), Energy Saving, Large Status LED,					
	acting		Space for Customized viceos, Muitt Language Support LCD Message (31 Languages), Energy Saving, Large Status LED, Multiple Interfaces-Auto-Switching, USB Memory for Data Copy, Status Return, Alarm Sound Thermal head check, Paper end detection, Ribbon end detection, Test print, Head lift detection					
	iecking		i nermai nead check, Paper end detect	tion, Ribbon end detection, Test print, Head	IIIT detection			
Functions – Self Diagnosis Ch	5							



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COMPLIANT

😵 Bluetooth"

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